

# Jeremy Ey

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## Professional Experience:

### Systems Administrator

Dec. 2011 – Present

Information Technology Services, Tennessee Technological University

Cookeville, TN

Title for same position from Dec 2011- Nov 2012 Systems Programmer II

- Lead systems administrator for campus-wide virtual desktop infrastructure (VDI).
- Perform administration of primary and disaster recovery (DR) data center infrastructure.
- One of two administrators with lead responsibility for Commvault backup and replication solution.
- Perform administrative functions for department applications, including electronic medical records and digital signage.
- Contribute to project teams comprised of members from across ITS and the university in the planning, design, and implement of information technology solutions.
- Recommend, install, and maintain products for the campus virtualization environment, including: vSphere Suite (ESXi, vCenter), vRealize Operations Manager (including vROPs for Horizon), Horizon View, Unidesk, and LoginVSI.
- Develop best practices and designs for virtual desktops and hosts. This includes resource (CPU/RAM/Storage) allocations. Also included in this is the assignment and deployment of NVIDIA GRID graphics virtualization solution.
- Specify, deploy, and manage Dell servers, iSCSI (Nimble and EqualLogic) and direct attached storage, and supporting infrastructures. Provided management with recommendations on hardware lifecycle decisions.
- Directly responsible for the deployment and maintenance of virtual desktops (including operating system and software application deployment) within the campus virtual desktop environment.
- Provide 2<sup>nd</sup>-tier support for the deployment of additional virtual desktops by the College of Engineering.
- Responsible for configuration and management of over 100 Teradici PCoIP Zero-Clients and other Dell and WYSE thin-client devices.
- Perform task automation and administrative tasks using Powershell and VMware PowerCLI.

### Adjunct Instructor

Jan. 2012 – Dec. 2016

Department of Computer Science, Tennessee Technological University

Cookeville, TN

- Taught courses in Information Technology (CSIT) – Systems Programming (Fall) & Web Programming (Spring).
- Taught courses in Web Design and Development (Spring 2012).
- Course content: HTML, CSS, client-side & server-side JavaScript, Python, Linux & Windows system administration.
- Both within and outside the classroom continued to assist students learning and using additional technologies.
- Assisted in maintaining CSIT Curriculum based on ABET, ACM, other standards, and constituent feedback.

**Instructor**

Aug. 2007 – Dec. 2011

Department of Computer Science, Tennessee Technological University

Cookeville, TN

- Taught courses in web design and introductory computing.
- Courses included coverage of programming with client-side JavaScript, PHP, and Python.
- In addition to technologies formally covered in class also assisted students with web related projects using a variety of technologies. This included both student selected technologies in courses personally taught as well as referred students from other courses.
- Assisted in authoring Spring 2011 CSIT Curriculum Revisions.
- Assisted in administration of department computing resources, including advising members of the department's student administration team.
- Worked with other faculty members to revise website content and improve department social media presence.
- Continued involvement with Volunteer eHealth Initiative research project.

**Graduate Research Assistant**

Jan. 2006 – July 2007

Department of Computer Science, Tennessee Technological University

Cookeville, TN

- Researched record linkage as part of the Volunteer eHealth Initiative.
- Evaluated record linkage algorithms for use in linked medial records.
- Developed several tools to assist in the review of records and record linkage results including:
  - a deterministic record linkage toolkit (dGrail) that made use of distributed job scheduling,
  - a Regional Health Information Organization (RHIO) simulator (RHIM),
  - a GUI, using PyObjC bridge and Cocoa, for review of linkage results.
- Majority of development work was performed in Python on OS X
- This work also included review of existing code, written in either Python or Perl.

**Student Administrator**

Aug. 2003 – Dec. 2005

Department of Computer Science, Tennessee Technological University

Cookeville, TN

- Served as senior member of department system administration team.
- Maintained the Computer Science Department website.
- Administered Apache, PHP, and MySQL installations for Mac OS X servers.
- Assisted in administration of department's labs and servers.
- Developed a PHP & MySQL-based web application for student work time tracking.
- Led the migration of the department website to Plone, a Zope and Python based CMS.

**Education:****M.S. Computer Science** - Tennessee Technological University

August 2007

Thesis Title: A Knowledge Discovery and Modeling Framework for Population-sensitive Evaluation of Record Linkage Algorithms

Advisor: Dr. Douglas A. Talbert

**B.S. Computer Science** - Tennessee Technological University

December 2005

Concentration in Software and Scientific Applications

26 hours in Library and Information Science - University of Illinois, Urbana-Champaign  
towards an MLIS with a specialization in data curation

2009-2011

**Certifications and Designations:**

VMware Certified Implementation Expert – Design and Mobility (VCIX6-DTM)

VMware Certified Advanced Professional

Desktop and Mobility Deploy (VCAP6-DTM Deploy)

Desktop and Mobility Design (VCAP6-DTM Design)

VMware Certified Professional

Desktop and Mobility (VCP7-DTM, VCP6-DTM, VCP5-DT)

Data Center Virtualization (VCP6-DCV, VCP5-DCV)

**Awards:**

VMware vExpert (2018)

WISH Mentoring Program at CHI2010 (2010)

Selected to participate in the Workshop on Interactive Systems in Healthcare (WISH) mentoring program for students and junior researchers at CHI2010.

Best Poster Award Graduate Student Computer Science (2007)

Research Day Tennessee Technological University

*Poster Title: Distributed System for Record Linkage Gold Standard Generation*

Eagle Scout, Boy Scouts of America (2000)

**Service:**

Merit Badge Counselor, Merit Badge University Tennessee Technological University (2009-2018)

*Digital Technology (2015, 2017-2018), Electricity (2016), Computers (2009-2014)*

Site Assistant or Technology Staff, ACM ICPC Regional Programming Contest (2003-2010, 2012-2017)

*Tennessee Technological University Site*

Women in Cybersecurity Conference (WiCyS)

*March 2016 – Social Media Committee,*

*March 2015 - Logistics Committee Member*

*April 2014 – On-site Volunteer*

Sponsor and Volunteer, Tennessee Celebration of Women in Computing (TNWIC) 2011 (Oct 2011)

Judge and Site Assistant, IEEE SoutheastCon 2011, Student Programming Contest (March 2011)

Chapter Chair, ACM Student Chapter Tennessee Technological University (2002-2003 School Year)

**Memberships:**

Association for Computing Machinery (ACM)

ACM Special Interest Groups on:

Computer-Human Interaction (SIGCHI)

Information Retrieval (SIGIR)

VMware Users Group (VMUG)

## Publications and Presentations

### Posters:

**Ey, J.**, Talbert, D.A.

The Use of Field Dissimilarity Transformation Rules in a Regional Health Information Organization Simulator

*Proceedings of the AMIA 2009 Annual Symposium* (2009).

Breece, R., **Ey, J.**, Eckart B., Assink, M.L., Talbert, D.A.

Evaluating and Refining Record Matching Algorithms in the MidSouth eHealth Alliance

*Proceedings of the AMIA 2009 Annual Symposium* (2009).

Eckart, B., **Ey, J.**, Talbert, D.A.

An Efficient Recursively Blocking Fellegi-Sunter Implementation for Automated Medical Record Linkage

*Proceedings of the AMIA 2009 Annual Symposium* (2009).

**Ey, J.**, Walker, A., Talbert, D.A.

The dGrail Toolkit for Iterative Deterministic Record Linkage

*Proceedings of the AMIA 2007 Annual Symposium* (2007).

**Ey, J.**

Simulating Regional Medical Record Systems (student poster)

*Proceedings of the 2007 ACM Southeast Conference* p. 537-538 (2007).

### Conference/Symposium Presentations:

**Ey, J.**

Considerations for the deployment of GPUs in virtual desktop environments

*Tennessee Higher Education Information Technology Symposium* (2018)

**Ey, J.**, Mullis, C., Mowery, C.

Supporting Institutional Needs with Desktop Virtualization

*Tennessee Higher Education Information Technology Symposium* (2015)

**Ey, J.**

Experiences with Virtual Desktop Infrastructure (VDI)

*Proceedings of the 2012 Fall Conference Mid-Southeast Chapter of the ACM* p. 92 (2012)

Brown, E., **Ey, J.**

Observations from the Bunker: BYOD Usage in Computer Science Education

*Proceedings of the 2012 Fall Conference Mid-Southeast Chapter of the ACM* p. 82 (2012)

Hood, D., **Ey, J.**

Implementing VDI with VMware View and Unidesk

*Tennessee Higher Education Information Technology Symposium* (2012)

Brown, E., **Ey, J.**, Olmstead S.

STEMming the K-12 Link: Asynchronous Technology Instruction for High School Students

*Proceedings of the 2011 Fall Conference Mid-Southeast Chapter of the ACM* p. 95 (2011)

**Ey, J.**

Educating the Non-Programmers, Tools for HTTP Instruction

*Proceedings of the 2010 Fall Conference Mid-Southeast Chapter of the ACM* p. 83 (2010)

Brown, E., **Ey, J.**

Living on the Bombing Range: The Expanding Role of Remote Services

*Proceedings of the 2010 Fall Conference Mid-Southeast Chapter of the ACM* p. 95 (2010)

Dye, R., Holt, B.S., **Ey, J.**, Brown, E.  
Keeping the Bombing Range Open: A Case for Redundant Remote Shell and Software  
Development Services for Student Success  
*Proceedings of the 2009 Fall Conference Mid-Southeast Chapter of the ACM* p. 76 (2009)

Young, P.S., **Ey, J.**, Brown, E.  
3 Years of Allison Applesauce  
*Proceedings of the 2008 Fall Conference Mid-Southeast Chapter of the ACM* p. 84 (2008)

Young, P.S., Binkley, R.A., Greenway, W.P., **Ey, J.**, and Brown, E.  
Background Virtual Machines for Distributed Computing  
*Proceedings of the 2007 Fall Conference Mid-Southeast Chapter of the ACM* p. 71 (2007)

**Ey, J.**, Stinson, J., and Brown, E.  
OS X as a Unix Environment  
*Proceedings of the 2006 Fall Conference Mid-Southeast Chapter of the ACM* p. 91-92 (2006)

**Vendor Hosted/Sponsored Presentations:**

Duescher, G., **Ey, J.**  
Layering: The better way to manage your Windows Apps and Images  
*Minneapolis VMUG EUC Day 2016, March 11<sup>th</sup>, 2016*

**Ey, J.**, Pazos-Revilla, M.  
Customer Only Online Hangout  
*Unidesk Corporation Concierge Service Customer Hangout, July 16<sup>th</sup>, 2015*

**Ey, J.**  
Tennessee Tech on Unidesk  
*Nashville VMUG Converge 2015, April 8<sup>th</sup>, 2015*

**Ey, J.**, Pazos-Revilla, M.  
Tennessee Tech University, One Year Later  
*Unidesk Corporation Webinar, November 20<sup>th</sup>, 2014*

**Ey, J.**, Downard, R., Duescher, G., Goodson, S., Milam, S.  
5 Universities Share Keys to Successful Desktop Virtualization  
*Unidesk Corporation Webinar, March 13<sup>th</sup>, 2014*

**Ey, J.**, Christenberry R., Hood, D., Pazos-Revilla, M.  
Tennessee Tech Shares its VDI Story of Virtualizing 1,000 Desktops on a Limited Budget  
*Unidesk Corporation Webinar, December 17<sup>th</sup>, 2013*